

IN THE CLAIMS:

Please amend claims 1, 8 and 10 as follows.

1. (Currently Amended) ~~Method~~ A method for automatic location updating of a wireless terminal in a communications system comprising a number of private branch exchanges and at least one telephone exchange, the communications system being connected to a public integrated services network and an intelligent network; the method comprising:

DI the terminal sending, in connection with a call setup, a an automatic location updating message to a private branch exchange and the private branch exchange sending a call setup message to the exchange;

the private branch exchange automatically adding the location information and identity of the terminal to the call setup message;

the telephone exchange automatically sending to a node of the intelligent network a service request, the service request including the location information and the identity of the terminal; and

the node of the intelligent network automatically adding the location information of the terminal to the subscriber number.

2. (Previously Presented) Method according to claim 1, wherein, in case of an incoming call to the terminal:

the exchange sends the node of the intelligent network a service request comprising the subscriber number;

the node of the intelligent network returns the location information of the terminal to the exchange; and

the exchange establishes a connection with the private branch exchange indicated by the location information of the terminal, which private branch exchange sets up a call with said terminal.

DI 3. (Previously Presented) Method according to claim 1, wherein at least one Home Private Branch Exchange is allocated to each terminal, and the home private branch exchange notices in case of an internal call that both the calling and the called subscriber are in the area of the same private branch exchange, and in this case the home private branch exchange sets up a call without any service request to the intelligent network.

4. (Previously Presented) Method according to claim 1, wherein the private branch exchange reserves for the terminal a roaming number used as location information of the terminal.

5. (Previously Presented) Method according to claim 4, wherein a fixed area from a number space of the private branch exchange in question is reserved for roaming numbers in the numbering plan.

6. (Previously Presented) Method according to claim 1, wherein the terminal is a terminal of the DECT (Digital European Cordless Telephone) system and the identity of the terminal is IPUI (International Portable User Identity) or IPEI (International Portable Equipment Identity).

7. (Previously Presented) Method according to claim 6, wherein the method uses DSS.1 signalling protocol and the location information is positioned in a FACILITY or USER_TO_USER information element.

DI 8. (Currently Amended) Private Branch Exchange, comprising
first interface means for interfacing to an exchange having a Service Switching Post for interfacing to a service control point of an intelligent network; and

second interface means for interfacing to base stations of a telephone system supporting wireless terminals each terminal having an associated identity;

wherein the private branch exchange is ~~adapted~~ configured to, in response to a location updating of one of the terminals:

automatically assign location information for a said one of the terminals in ~~question~~; and

automatically send said location information to said exchange in a message which is suitably formatted so that said Service Switching Point re-sends said location information to said service control point.

9. (Previously Presented) Private Branch Exchange according to claim 8, wherein the location information of a terminal is a roaming number.

10. (Currently Amended) Arrangement for location updating of a wireless terminal in a communications system, the arrangement comprising a number of private branch exchanges and being in connection with a Public Integrated Services Network and an intelligent network;

wherein

D1 the wireless terminal comprises means for sending a location updating message in connection automatically with a call setup to a private branch exchange and the private branch exchange comprises means for sending a call setup message automatically to an exchange;

the private branch exchange comprises means for automatically allocating location information to the terminal of the wireless network;

the private branch exchange comprises means for automatically adding the location information and the identity of the terminal to the call setup message;

the exchange comprises means for automatically sending the location information and the identity of the terminal to a node of the intelligent network in connection with a service request;

the note of the intelligent network comprises means for automatically adding the location information and the identity of the terminal to the subscriber number.

11. (Previously Presented) Arrangement according to claim 10, wherein the location information of the terminal is a roaming number allocated by the private branch exchange.

DI 12. (Previously Presented) A method according to claim 1, wherein the subscriber missing is an MSISDN number of said terminal.

13. (Previously Presented) A private branch exchange according to claim 1, wherein the roaming number is reserved from the number space of said private branch exchange.
